

AMENDMENTS TO THE SPECIFICATION

Please replace the last paragraph on page 15, continuing onto page 16 with the following amended paragraph:

A band-pass filter (BPF) 1-4-1 extracts high-frequency currents of the same frequency band as the generated carrier signals, ~~from the estimated current~~ from the detected currents. A current coordinate converter 1-4-2 converts the extracted high-frequency currents to two-phase currents in a two-phase stationary coordinate system in which one of three-phase stator windings UVW is α -axis and an axis intersecting the axis at 90 deg. is β -axis, and similarly the high-frequency currents to two-phase currents in a two-phase stationary coordinate system in which the phase is similarly shifted by 45 deg. from the two-phase stationary coordinate system, or in which an axis that is shifted by 45 deg. from the α -axis is α' -axis and an axis intersecting the axis at 90 deg. is β' -axis.